



Express Mail No. EL988726656US
Mailed: March 1, 2004

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/667,005 Confirmation No. 6644
Applicant(s): Youngun Pae
Filed: September 16, 2003
Art Unit: 1755
Examiner:

Docket No.: 7124.020
Customer No.: 30589

Mail Stop Fee/Non-Fee Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

**List of Sections Forming Part of This
Information Disclosure Statement**

The following sections are being submitted for this Information Disclosure Statement:

1. ☒ Preliminary Statements
2. ☒ Forms PTO/SB/08A and 08B (formerly Form PTO-1449)
3. ☐ Statement as to Information Not Found in Patents or Publications
4. ☐ Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted
5. ☐ Cumulative Patents or Publications
6. ☐ Copies of Listed Information Items Accompanying this Statement
7. ☐ Concise Explanation of Non-English Language Listed Information Items

- 7A. ☐ EPO Search Report
- 7B. ☐ English Language Version
8. ☐ Translation(s) of Non-English Language Documents
9. ☐ Concise Explanation of English Language Listed Information Items (Optional)
10. ☒ Identification of Person(s) Making this Information Disclosure Statement

Section 1. Preliminary Statements

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)

- ☒ A completed Form PTO/SB/08A and/or Form PTO/SB/08B is attached hereto.

Section 3. Statement as to Information Not Found in Patents or Publications (Information Not Listed in Form PTO-1449)

Section 4. Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted

This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. _____, filed on _____ (date).

(complete the following, if applicable)

- ☐ This application also relies, under 35 U.S.C. 120, on the earlier filing date of prior application Serial No. _____, filed on _____ (date).

The following references were submitted to, and/or cited by, the Office in the prior application(s) and therefore, are not required to be provided in this application:

Section 5. Cumulative Patents or Publications

STATEMENT

_____ is cumulative of the following patents or publications listed on Form PTO-1449:

In accordance with 37 C.F.R. § 1.98(c), a copy of only _____ is being submitted with this Information Disclosure Statement.

Section 6. Copies of Listed Information Items Accompanying this Statement

Legible copies of all items listed in Form PTO-1449 (Modified) accompany this information disclosure statement.

- ☐ Exception(s) to above:
- ☐ Items in prior application from which an earlier filing date is claimed for this application, as identified in Section 4.
- ☐ Cumulative patents or publications identified in Section 5.

Section 7. Concise Explanation of Non-English Language Listed Information Items

Section 7A. Concise Explanation of Non-English Language Listed Information Items - EPO Search Report

The relevance with respect to the following citations listed on Form PTO-1449:

is submitted on the basis of accompanying:

(check the appropriate item)

- ☐ EPO search report that is in the English language,
- ☐ EPO search report that is not in the English language and that is accompanied also by an English language version of the EPO search report,

that issued on the corresponding European patent application.

**Section 7B. Concise Explanation of Non-English Language Listed Information Items
- English Language Version of EPO Search Report**

Section 8. Translation(s) of Non-English Language Documents

- ☐ Submitted herewith is an English translation of the following foreign language patents, publications or information or of those portions of those patents, publications or information considered to be material:

(complete the following, if applicable)

- ☐ No English language translations of the foreign language patents, publications or information or parts thereof are readily available, except for those listed above.
- ☐ The following foreign language documents submitted are believed to be the equivalent or substantial equivalent of the English language documents identified below, which are also submitted herewith.

**Section 9. Concise Explanation of English Language Listed Information Items
(OPTIONAL)**



Section 10. Identification of Person(s) Making this INFORMATION DISCLOSURE STATEMENT

The person making this statement is the agent/attorney who signs below on the basis of the information:

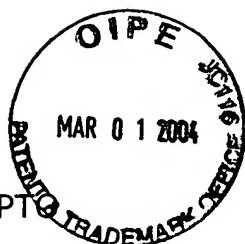
- ☐ supplied by the inventor(s)
- ☐ supplied by an individual associated with the filing and prosecution of this application (37 C.F.R. § 1.56(c)).
- ☒ in the agent/attorney's file

Respectfully submitted,

Michael H. Smith, Reg. No. 53,614
DUNLAP, CODDING & ROGERS, P.C.
P.O. Box 16370, Customer No. 30589
Oklahoma City, Oklahoma 73113
Telephone: 405/607-8600
Facsimile: 405/607-8686

Attorney for Applicant

Express Mail: EL988726656US
Date Deposited: March 1, 2004



Page 1 of 3

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known	
Application Number	10/667,005
Filing Date	09/16/2003
First Named Inventor	Youngun Pae
Group Art Unit	1755
Examiner Name	
Attorney Docket Number	7124.020

(use as many sheets as necessary)

U. S. PATENT DOCUMENTS

EXAM INIT.	Cite No. 1	U.S. PATENT NUMBER Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		3,780,132		Lohr	12/18/1973	
		3,922,440		Wegworth et al.	11/25/1975	
		4,027,073		Clark	05/31/1977	
		4,081,421		Yoshida et al.	03/28/1978	
		4,211,823		Suzuki et al.	07/08/1980	
		4,355,135		January	10/19/1982	
		4,390,373		White et al.	06/28/1983	
		4,405,679		Fujoika et al.	09/20/1983	
		4,442,168		White et al.	04/10/1984	
		4,485,130		Lampin et al.	11/27/1984	
		4,594,290		Fischer et al.	06/10/1986	
		4,756,827		Mayer	07/12/1988	
		5,013,608		Guest et al.	05/07/1991	
		5,013,788		Nagashima et al.	05/07/1991	
		5,102,695		Guest et al.	04/07/1992	
		5,120,811		Glotfelter et al.	06/09/1992	
		5,314,947		Sarawagi	05/24/1994	
		5,316,791		Farber et al.	05/31/1994	
		5,367,019		Sawaragi	11/22/1994	
		5,789,082		Treadway	08/04/1998	

U. S. PATENT DOCUMENTS

EXAM INIT.	Cite No. 1	U.S. PATENT NUMBER Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5,789,476		Iryo et al.	08/04/1998	
		5,907,000		Treadway	05/25/1999	
		5,919,860		Roesler et al.	07/06/1999	
		5,958,514		Havey et al.	09/28/1999	
		6,001,163		Havey et al.	12/24/1999	
		6,057,039		Takeshita et al.	05/02/2000	
		6,342,097		Terry et al.	01/29/2002	
		6,346,331		Havey	02/12/2002	
		6,348,269		Terry	02/19/2002	
		6,538,092		Terry et al.	03/25/2003	

FOREIGN PATENT DOCUMENTS

EXAM INIT.	Cite No. 1	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office 3	Number 4	Kind Code ⁵ (if known)				
			2071692		Canada	12/26/1992		
			DE4020316 A1		Germany	01/09/1992		
			DE4118826 A1		Germany	12/12/1991		
			0407174 A2		EP	01/09/1991		
			0526975A2		EPO	02/10/1993		
			0570165 B1		EPB	10/29/1997		
			0601782 B1		EPB	05/28/1997		
			58141250		Japan	08/22/1983		
			4198379		Japan	07/17/1992		
			446975		Japan	02/17/1992		
			407291817A		Japan	11/07/1995		
			409118757A		Japan	05/06/1997		
			WO 9516522		PCT	06/22/1995		
			WO 9629154		PCT	09/26/1996		
			WO 9846692		PCT	10/22/1998		
			WO 0024831		PCT	05/04/2000		

FOREIGN PATENT DOCUMENTS

EXAM INIT.	Cite No. 1	Foreign Patent Document	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office 3 Number 4 Kind Code5 (if known)				

U.S. and Foreign: ¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard St.3). ⁴Form Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

EXAM INIT.		NON PATENT DOCUMENTS
		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
		Chemical Abstract, Vol. 126, No. 1, January 1997, Columbus, Ohio, US; Abstract No. 9335, KATO, H., E.A.: "Siloxane coat compositions with improved resistance to abrasion, UV, and heat for plastic optical materials" XP002075220 (see abstract & JP 08 239 627 A (Ito Optical Ind Co. Ltd.).
		"Cycloaliphatic Epoxide Based Sol-Gel Derived Materials"; Better Ceramics Through Chemistry VI, Material Research Society Symposium Proceedings, 1994, V. 346, Sigel, Domszy and Welch.
		"A New Type of A Sol-Gel-Derived Inorganic-Organic Nanocomposite"; Better Ceramics Through Chemistry VI, Material Research Society Symposium Proceedings, 1994, V. 346, Kasemann, Schmidt, Wintrich.

Non Patent Documents: ¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature: _____

Date Considered: _____

EXAMINER: Initial if citation considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant. **Place of Publication refers to name of publication in which the information was published.



APPROVED 3/2/04

PTO DEPOSIT ACCOUNT CHARGE
ACCOUNT NO. 100-1100

DUNLAP, CODDING & ROGERS, P.C.

Express Mail No. EL988726656US

Deposited on: 03/01/2004

PTO/SB/21 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/667,005
	Filing Date	09/16/2003
	First Named Inventor	Youngun Pae
	Group Art Unit	1755
	Examiner Name	
Total Number of Pages in This Submission	Attorney Docket Number	7124.020

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): See remarks below:
<div>Remarks</div> <div>1. Information Disclosure Statement (5 pages); 2. Form 1449 (3 page) with copies of cited art; 3. Fee Transmittal (1 page); 4. Transmittal Form (1 page); and 5. Postcard.</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	DUNLAP, CODDING & ROGERS, P.C., Customer Number 30589 P. O. Box 16370, Oklahoma City, Oklahoma 73113
Signature	<i>Michael H. Smith</i>
Date	3/1/2004

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail or U.S. Express mail no. EL988726656US in an envelope addressed to the address below on this date: 03/01/2004			
Typed or printed name	Michael H. Smith, Reg. No. 53,614		
Signature	<i>Michael H. Smith</i>	Date	3/1/2004

SEND TO: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450



Express Mail No.: EL988726656US
Date Deposited: 03/01/2004

APPROVED
for
PTO DEPOSIT ACCOUNT CHARGE
ACCOUNT NO. 04-1700

PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FEE TRANSMITTAL for FY 2004

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 0

Complete if Known

Application Number	10/667.005
Filing Date	09/16/2003
First Named Inventor	Younqun Pae
Examiner Name	
Art Unit	1755
Attorney Docket No.	7124.020

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit
Account
Number
Deposit
Account
Name

04-1700

Dunlap, Coddling & Rogers, P.C.
Customer No. 30589

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$) 0

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent			\$0
Multiple Dependent			\$0

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 0

SUBMITTED BY

(Complete if applicable)

Name (Print/Type)	Michael H. Smith	Registration No. (Attorney/Agent)	53,614	Telephone	(405) 607-8600
Signature	Michael H. Smith	Date	03/01/2004		

Commissioner for Patents
PO Box 1450, Alexandria, VA 22313-1450